OCT 3 0 2003



NOV 0 5 2003

TECH CENTER 1600/2900

ABSTRACT OF THE DISCLOSURE

Recombinant or modified *Lactobacillus* bacteria are described for use in vaccines. The bacteria express a heterologous antigen either intracellularly or on the surface of the bacteria, and will elicit an immune response. The vaccines are suitable for oral administration. Preferred bacteria are of the species *Lactobacillus plantarum*, especially *L. plantarum 256*.